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参加方法:

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PCS '95 Expo Registration
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• •

ターネットによる登録も可能

Bアドレス:

www/pcia.com

グーネットEメール・アドレス:

@exporeg.com

2. 無の宿泊申込書に記入し、以下の でなかの方法で PCS '95 Housing & Travel Information 宛てに 変更してください:

X: 415-979-2270

PCS '95 Housing
Convention Management Resources
Mew Montgomery, Suite 2070
Crancisco, CA 94105 USA

415-979-2292

3. これ合わせ、または電話で登録を 金を望の場合は、電話: 617-329-9580 またはFAX: 617-329-8090まで 3. 絡ください。

または FAX の際は、正しい米国の をダイヤルしてください。

한 전시회 및 한 지붕 아래서 국제 무선 통신의 모든 분야와 장래성을 살펴 보십시오

미국 플로리다주 올랜도시 오렌지 카운틴 컨벤션 센터에서 1995년 9월 21일에 개장하는 PCS '95에 참가하시기 위해 서는 지금 준비를 시작하십시오!

PCS '95 는 오직 무선 통신에 대해서만 집중적으로 초점을 두고 있습니다. 음성 또는 데이터, 페이징 또는 셀룰러, 위성 통신 링크 또는 디지털 통신 등 어느 분야에 관심을 가지고 계시는 PCS '95 에서 모든 것을 보시게 될 것입니다!

유럽, 북남미, 아시아 등 전세계의 통신 전문가들이 참석합니다! 무선 통신 산업 에 종사하는 모든 지도적 기술 혁신가들 이 참석합니다.

이들은 1995년에 산업, 장래성 및 전당에 대해 전반적인 최신 상황을 파악하는 데 이보다 더 좋은 곳이 없다는 것을 알기 때문에 올랜도로 오는 것입니다.

이 독특한 국제적 교육 행사에 참여 하십시오

PCS '95는 30회 이상의 강습회를 통해 모든 중요한 이슈를 취급함으로써 타의 추종을 불허하는 교육 기회를 제공합니다. PCS '95는 다음과 같은 것을 여러분에게 알려 드릴 것입니다.

- 어떻게 로밍. 에어 인터페이스 표준,위성 서비스 및 작임리스 통신 환경이 국제적으로 발전하고 있는가.
- PCS, 이동 데이터 및 기타 서비스의 미래는 어떠한가. PCS 95에서 새로 등장하는 국제 시장에 대해 심층 지식을 얻으십시오.
- 의성 통신 서비스는 전체 무선 통신 분야 중 어느 부분에 적합한지 그리고 국내 및 국제 규정이 위성 통신의 성장에 어떻게 영향을 마치는가.

외국 방문객들을 위한 특별 서비스를 즐기십시오.

PCS '95는 여러분의 방문이 즐겁고 보람 있도록 하기 위해 다양한 서비스 로 외국 방문객을 맞이할 것입니다.

PCS '95 의 인터내셔널 비즈니스 센터에는 여러분의 편의를 위해 통역사, 전화 및 휴게실이 마련되어 있습니다. 또한 여러분의 나라로 수출하는 데 관심을 가진 PCS '95 전시 업체를 소개하여 드릴 수 있습니다.

여행 지원, 식당 예약, 인근 명소에 대한 안내 등 여러 가지 도움을 인터 내셔널 비즈니스 센터에서 받으실 수 있습니다.





올랜도의 유명한 테마 공원과 오락 시설을 방문하실 수 있도 록 일정을 길게 잡으시기 바랍 니다.

모든 최신 제품을 관람하십시다

PCS 195는 업계에서 가장 될 수 이 비료 계를 소개하여 드립니다. 어떻게 국 한 기술을 속돼 고객이 활용할 수 있는 신제품을 계약하는 기계의 실수 있습니다. 여러분의 사업에 필요하는 회사들과 만나설 수 있습니다. 현대가 이상의 회사가 출품하므로 경쟁 제품을 느라히 비교할 수 있습니다. 현명한 구입을 하시고 여러분의 미래가 요구하는 성공적인 수과를 기십시오!

업무외 시간은?

PCS '95 에서 업무가 끝나면, 여러분은 세계 최고 관광지 가운데 하나인 올랜도 지역의 명소에 둘러 싸일 것입니다.

월트 디즈니 월드, 유니버설 스튜디오 플로리다, 시 월드 등의 테마 공원을 구경하십시오, 케이프 카내베랄과 케네디 우주 센터를 방문하십시오, 플로리다 해변과 수많은 인근 골프장에서 느긋 하게 긴장을 푸십시오.

이 모든 것이 올랜도에서 여러분을 기다리고 있으며, 추억에 남을 1995 Personal Communications Showcase 방문의 한 부분이 될 것입니다

참석 방법

1. 동봉한 등록 양식을 완전히 작성하여 팩스 조는 우편으로 PCS '95 Expc Registration 앞으로 보내시기 바랍니다.

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보고 아타넷을 통하여 등록하실 수도 있습니다.

tp://www/pcia.com

보다넷 전자 우편 주소:

ega@exporeg.com

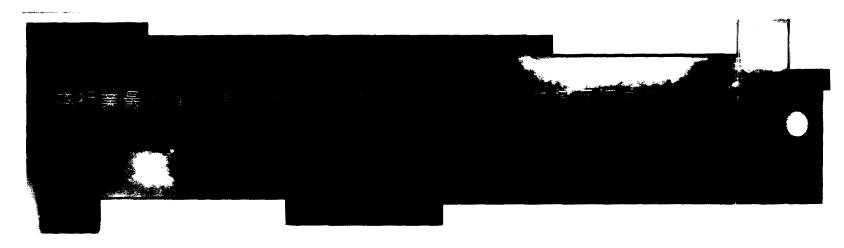
2. 물론 숙소 예약 양식을 완전히 작성하여 스포는 우편으로 PCS '95 Housing & me Travel Information 앞으로 보내십

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조화를 하시거나 팩스를 보내실 때에는 조화를 미국 국가 번호를 사용하시기 바랍니다.



PCS'95 將於 1995 年 9 月 21 日在美國佛羅里達 州奧蘭多市橙郡會議中心舉行!請立刻作出赴 會安排:

PCS'95 乃無線通訊設備精品專展。無論您感 興趣的是話音還是數據、是傳呼服務還是蜂窩 通訊、是衛星收發器材還是個人數字通訊設 備 PCS'95 無所不包!

屆時將有來自歐洲、南北美洲、亞洲以及世界各地的通訊專家與會!為無線通訊行業服務的 所有一流發明家將親臨會場解答您的問題。

他們之所以雲集奧蘭多,是因為他們知道 1995年沒有任何其他展覽能夠像本屆博覽會 一樣如此完備地提供無線通訊行業的最新發展 狀況、潛力和前景。

参加別具一格的國際講習班

PCS組織了無與倫土的教育活動、計劃共舉辦三十多期講座 (1) 容涉及所有重大問題。 您在 PCS (1) 上一定 (1) (養解到:

- 漫遊、空中界重標準 衛星服務和無縫通 訊環境在全球範圍床的演進;
- PCS、移動數據及其他服務的發展前景。您在PCS"○ 二會深入瞭解世界各地正在形成的新興市場
- 以衛星為基礎的服務怎樣與整個無線通訊 行業融為一體、以及各國國內和國際上採 取的管理措施對開發多用途衛星服務正在 發生何種影響

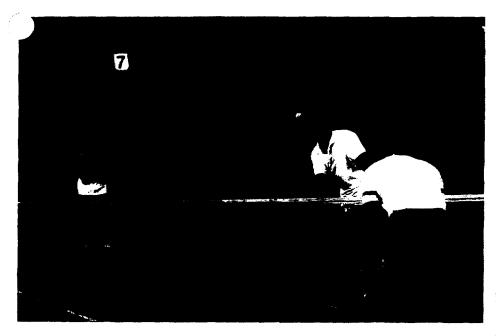
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安排行程·預訂旅館、介紹附近 觀光景點....國際業務中心的服 務內容應有盡有





請多安排幾天時間,以便盡情 享受奧蘭多著名的專題公園和 游樂活動。

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作為全世界的熱門觀光勝地之一。 奧蘭多地區 的著名景點不可勝數一您在完成 PCN 工的業務 活動之後可以盡情遊樂

您可以遊覽迪斯奈樂園的專題公園 佛羅里達環球電影遊樂場和海洋世界 遷可以參觀卡納維拉爾角的甘乃迪宇航中心 另外 佛羅里達的海灘和附近的幾十個高爾夫球場都是放鬆的好地方。

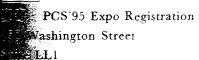
奧蘭多的一切都在等待您......它們將和1995年個人通訊設備博覽會一樣一融入您的記憶之中,使您難以忘懷!

怎樣註冊

1. 主**填寫隨信寄**上的註冊表 然後寄回 3**3.95大會註冊處** 內性地址是



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am, MA 02026-4449 USA



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er 電子郵件地址:

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2. 寫隨信寄上的住宿登記表,然後 2. CS'95住宿與航班資訊處,收件地



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3. 念有疑問,或者希望打電話註冊, 以下號碼和我們聯絡:617-329-9580 (傳真)。

> 在電話或傳真聯絡時,請注意使用代 美國的正確號碼。

Preliminary Schedule

September

Registration 9:00 a.m. Preconference Program 8:00 a.ma.

September

Registration 7:30 a.ma. Super Session 9:00 a.m. **Exhibits Open** 11:00 a.m. Concurrent Sessions 1:00 p.m. Opening Reception 4:00 p.m. PCS '95 Gala* 7:00 p.m.

September

| Registration | 8:00 a.m. |
|---------------------|-----------|
| Super Session | 9:00 a.m. |
| Exhibits Open | 11:00 a.m |
| Concurrent Sessions | 10:45 p.m |

September

| Registration | 8:00 a.m. |
|-------------------------------|-----------|
| Special Session | 9:00 a.m. |
| Exhibits Open | 9:00 a.m. |
| Florida Brunch (Exhibit Hall) | 9:00 a.m. |

^{*} Held at Universal Studios. Special ticket required to

Exhibitor List

3M/Telecom System Div A.G. Beeper Accessories AAT Communications AccessLine Technologie: Accutech international Advance Labe: A Tag Advanced Signal Aligo Alpha/Argus Ame: cas Network Am-ricar Vanagement tystems AMS: Ancher Graphics Ancrew Corporation Anti- International Inc Arch Nation wide Paging 486 % Assemble Products Corporation Astron Corporation ASTRONET Corporation aTo Network Wireless Systems 4TA Information Systems Auctiovox Celiu ar Communications Baja Systems Baker Producti Вен шесто Re Atranti Be one Ble Publications/Consulting Brillianice Systems Inc Carramex Communications programor Capital Data Systems Cas > Computer/Mitsui Comtek Carona : De Luar Business Magazine De luar Gerzwains Or Wave - ≃ drair De marino i international Inc. ectech Systems Inc. immunications Associates ne Commune mputer Resources MSAT RS msearci rnverse Technology Inc sort um of Consultants lexas PCS) Bative Applications Inc shcraft Corporation arcie's & Associates 494 Communications HaCard Dorporation er on Telecommunications international esktop Paging Software Inc evitex Electronic Packaging Systems able Communications Eligital Microwave Corporation gital Sound Corporation rieci paging

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scamo Dresden Inc.

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MS Wireless

-scover Card Services SP Communications Inc.

agie Telecom International

EDS Personal Communications

EX Engineering

r nance: Services Billing Inc.

We aless :nesse rsoptel Software S Cases & Accessories veron America SVTEK Corporation -xuel -Excell Agent Services Express Cellular Products Fibrebond Corporation fironic Comtek Freman's Fund Freeman Engineering Associates Inc. Frequency Management ∃wit Inc Generac G enayre Electronics GPD Associates Grayson Electronics GTÉ Government Systems Haddcomm International Inc. Hark Systems Inc. Hazeltine Hewlett-Packard Huber & Suhner Inc. Hughes Network Systems Hy-Q International Inc. IFR Systems Inc. In-Touch Management Systems Into Cellular Information Radio Technology Inc Intostream integrated Site Development Co. intelligent Information International Telecommunication Data Systems Intuitive Software Solutions JB Communications JITECH Kossuth & Associates Inc. Lasertron Lawrence Behr Associates Inc. LCC Inc. Le Blanc Communications Leatex Light Bridge Inc. LOCATE/PCN-One Marconi Instruments Inc Maxon America Inc. Meridian Communications Message Center USA Microspace Communications Corporation Milcom International Inc Minerich Inc. Minited Services Inc. Miracom Technologies inc. Mobile Mark Mobile Office Magazine Mobile Systems international MobileComm Motorola Pan American Paging Division MTA-EMCI NATCOM Inc NEC America Inc. Network Building & Consulting Network USA NEXUS Telecommunication Systems Nokia Mobile Phones Northeastern Land Services Ltd. Northern Technologies Inc.

Northern Telecom Inc.

NSN Network Services

NS&D

Omnipoint

NovaLink Technologies Inc

ORA Electronics P-Comm PageNet Panasonic Qualcomm ROHN SkvTeL Star Paging Steinbrecher Swatch Szeto TEC Cellular TekNow Inc. Teledynamics TRW Unibridge Wavetek Corporation Western Multiplex

Wireless NOW

Zetron Inc.

Ortel Corporation Output Services Group Pacific Communication Sciences Inc. PageRepair inc PCS Wireless Personal Communications Industry Association Phillips Business Information Pinon International Inc. PolyPhaser Corporation Positive Communications PR Communications Inc. RAM Systems Development **RCR** Publications Real Time Strategies Reflection Technology **REO Enterprises** Richard Connor Riley & Associates RMS Communications Group Inc. Rules Services Company Sabre Communications SAFCO Corporation Samsung Telecommunications of America Scala Electronic Corporation Securical Wireless Net Seiko Communications of America Inc. Shinwa Communications of America SKYDATA Inc. Socket Communications Southern Micro Graphics SpaceCom Systems Spectrum Communications Corporation Statistical Control Systems Stealth Network Technologies Inc. Subscriber Computing Inc. SunGard Mailing Services Sunrise Credit Services Inc. Survey Technology Inc. SW & Associates TeleLink Technologies Tempco Corporation TGA Systems Inc. The National Dispatch Center The PAL Group Times Microwave Systems TowerWatch Inc TWR Telecom inc. Uniden America Corporation Valley Products Corporation Valment Industries VCP International W&W Associates Wacom Products Inc.

ISSUES OF PARTICULAR CONCERN TO ANTICIPATED AUDIENCE

The following issues are of particular concern to PCIA's membership and the likely audience at *PCS* '95 in Orlando:

- I. MICROWAVE RELOCATION (TAB A)
 - A. Balancing rights of incumbents and PCS licensees (TAB B)
 - B. Microwave relocation cost sharing (TAB C)
- II. BUILDING THE WIRELESS INFRASTRUCTURE
 - A. Responsible policies governing siting of wireless telecommunications facilities (TAB D)
 - B. Access to government lands and facilities for siting purposes (TAB E)
- III. NUMBERING ADMINISTRATION
 - A. Exhaust of toll free numbering resources and access to toll free numbers for personal communications services, such as paging (TAB F)
 - B. NPA relief activities (TAB G)
 - C. Future administration of the North American Numbering Plan (Tab H)
- IV. SPEEDING AUCTIONS OF REMAINING PCS LICENSE (TAB I)
- V. BROADCASTER FLEXIBIILITY (TAB J)
- VI. MARKET AREA LICENSING OF PAGING (TAB K)
- VII. INTERCONNECTION AND RESALE POLICIES (TAB L)

Brief descriptions of these issues follow, with some background reference materials, as appropriate. Please do not hesitate to contact Mark Golden at PCIA for additional information on this or any other issue.



MICROWAVE RELOCATION

Some 9,000 microwave links are deployed in the spectrum allocated to licensed, broadband PCS. While in some areas of the country it may be possible for PCS to co-exist with these incumbents, at least in the short term, in many key markets the relocation of microwave facilities is a necessary prerequisite for the deployment of services.

PCS licensees are obligated to protect incumbent microwave licensees from interference from PCS operations and, when this is not possible, to relocate them to comparable facilities outside the PCS spectrum. The full cost of this relocation is the PCS operator's responsibility. The PCS operator is also obligated to guarantee that the new facilities are comparable and, if this does not prove to be the case, return the microwave licensee to their original facilities.

PCIA has identified several problems which could thwart the successful deployment of broadband PCS. Some simply require clarification: others require a rulemaking proceeding. PCIA has identified these issues to the Commission and is urging the most rapid possible action to address them.

CHALLENGES FACING THE PCS INDUSTRY

The FCC has put significant effort into establishing a framework for the auctioning of 2 GHz spectrum for the provision of new Personal Communications Services (PCS) and the transition of the band from fixed microwave operations to PCS. The Personal Communications Industry Association (PCIA) has played a major role working with the PCS industry and the Commission to facilitate the deployment of the new products and services that will change the face of the communications industry. As the time for actual deployment of these new services arrives, it is critical that the Commission act quickly to remove some obstacles that threaten the successful conclusion of all of the Commission's work over the last several years. PCIA urges the FCC to take rapid steps to resolve these issues, some of which only require clarification of the PCS Rules while others may require a rulemaking proceeding.

ISSUES REQUIRING CLARIFICATION:

Microwave Incumbents Are Entitled Under FCC Rules to a Comparable System. Not Premium Payments. The Commission should clarify its rules and clearly state that the 2 GHz transition rules are to protect incumbents from injury due to relocation and not to be used to extract additional payments above the cost of a comparable system from PCS providers. Some incumbents seem to misunderstand the FCC's regulations and believe that they are free to threaten to delay deployment of PCS unless large premiums are paid.

A Public Notice Starting the Voluntary Relocation Period for Microwave Relocation for All PCS Spectrum Blocks Should Be Promptly Issued. The Commission announced that the start date for A and B Block voluntary microwave relocation periods was April 5, 1995. However, A and B Block licensees may need to clear microwave links from the adjacent channels in the C, D, E and F Blocks in order to deploy their systems. Therefore, a public notice should be released which starts the voluntary negotiation period for all PCS blocks. PCIA notes that starting the voluntary negotiation period in no way changes the one year notification that microwave licenses are guaranteed in the rules. (Redevelopment of Spectrum to Encourage Innovation in the Use of New Telecommunications Technologies, 8 FCC Rcd 6589, 6595 ¶ 15 (1993)).

The 12 Month Testing Period for Relocated Microwave Licensees Should Begin When the Cut-Over to the New System Occurs. The transition rules should be clarified to state that the 12 month testing period for an incumbent's new system begins when the incumbent starts using the new system. This will eliminate any ambiguity as to when the new system is accepted.

When the 12 Month Testing Period Ends, the Party Holding the License Should Surrender the Authorization and the FCC Should Issue a Public Notice Stating That the Link Has Been Decommissioned. So that there is no confusion among PCS licensees trying to deploy their systems as to which microwave licenses are still authorized, the microwave license for a relocated licensee should be surrendered to the FCC when the testing period has expired, and the Commission should issue a public notice so all PCS licensees will be aware that the incumbent has been successfully relocated.

ISSUES REQUIRING A RULEMAKING PROCEEDING:

The FCC Should Initiate A Rulemaking Proceeding and Adopt A Mandatory Cost Sharing Plan based on PCIA's Consensus Proposal. To facilitate the rapid relocation of the microwave licensees in the 2 GHz band, the FCC should adopt rules consistent with the proposal filed by PCIA. The PCIA proposal protects the interests of PCS providers and microwave incumbents, takes advantage of the efficiencies from a coordinated relocation process, and minimizes the administrative burden on the Commission.

No Additional Microwave Links in the PCS Spectrum Should Be Granted Primary Status. The initial PCS auctions have been completed and PCS providers are beginning to relocate microwave incumbents in their license areas and deploy PCS systems. Any new links granted primary status by the Commission will only increase the number of links that PCS providers must relocate and delay the delivery of PCS to the public.

PCS Providers Should Be Allowed to Hold a Relocated Microwave Incumbent's License During the Testing Period. The FCC should modify its rules to allow a PCS provider to hold the incumbent's license during the 12 month testing period. This will ensure that at the end of the testing period when the incumbent is satisfied with its new system, the PCS provider can surrender the license to the FCC and see that a public notice is issued.

Swift action by the Commission to address these issues and ensure that the deployment of PCS is not delayed and that these new services are available to the public on an expedited basis.

MICROWAVE RELOCATION

A. Balancing rights of incumbents and PCS licensees

FCC rules govern the relocation process. These rules were crafted to provide absolute protection to incumbent microwave licensee: they ensure that the microwave incumbent suffers <u>no</u> operational or economic harm from the relocation process.

PCIA fully supports this approach: in fact, the microwave relocation plan adopted by the FCC in ET Docket 92-9 is based upon a consensus proposal developed by the association and submitted to the Commission in June of 1992.

Some incumbents, however, are attempting to use these rules to extract additional payments above the cost of a comparable system, leveraging off their ability to delay deployment of PCS services.

PCIA believes the Commission should clarify that microwave incumbents are entitled to a comparable systems, not premium payments.



Jay Kitchen, President

April 28, 1995

The Honorable Reed E. Hundt Chairman Federal Communications Commission 1919 M Street, N.W., Room 814 Washington, D.C. 20554

Re: PCS/Microwave Relocation Issues

Dear Mr. Chairman:

The Commission's allocation of spectrum for Personal Communications Services ("PCS") and, in particular, the PCS band plan that was largely a product of your office's tireless work with the industry, represents a major achievement for the agency. More recently, the smooth and timely implementation of the auction for the A and B block spectrum exceeded virtually everyone's expectations, both within and outside the agency. You are to be commended for your efforts in placing these valuable PCS licenses in the hands of entrepreneurs who, in turn, may now proceed to provide innovative and beneficial services to the public.

The PCS industry is now gearing up for the difficult work required to bring your vision, and the vast promise of this exciting new technology, into reality. For example, PCIA is now developing plans for facilitating the relocation of entire microwave systems, as opposed to ad hoc replacement of individual microwave links, in response to microwave licensees' concerns. PCIA's efforts also include continued exploration of the feasibility of implementing a cost sharing program to encourage coordinated relocation activities among affected PCS providers.

Unfortunately, just as PCS is moving forward, it has become apparent that there exists a substantial potential for serious troubles to arise from abuses of the rules adopted to protect microwave licensee interests in the relocation process. These troubles threaten the realization of the Commission's goals for prompt deployment of PCS service to the public notwithstanding the PCS industry's commitment to that process.

PCIA firmly and unquestionably supports the rights of microwave licensees to the provision of full cost compensation and comparable alternative facilities in exchange for their agreement to relocate from the PCS spectrum. Indeed, PCIA has worked very hard in

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Honorable Reed Hundt April 28, 1995 Page 2

this context. The current rules largely track PCIA proposals and most recently the Association worked hard to maintain tax relief for relocation sales and exchanges. However, it has now come to PCIA's attention that those rules may be misused by certain parties to achieve perverse results which were unintended by the agency and are clearly not in the public interest.

At least one major organization seeking to represent collectively microwave licensees in the relocation process has distributed materials that graphically underscore and promote the use by incumbent microwave licensees of their inherent bargaining leverage to extract excessive premium payments in relocation negotiations. This marketing material clearly suggests exploiting the FCC's safeguards -- which were adopted to protect microwave licensees from being abused themselves -- to extract enormous payouts from PCS licensees. That material stresses the economic pressures faced by PCS licensees who need to move quickly to implement service because of the substantial financing costs that would result from any delay and points out the control a microwave licensee can exercise to block prompt service deployment by stalling on its relocation negotiations. The implicit message conveyed is that the combination of the existing rules and the large sums paid out by auction winners encourage strategic behavior by microwave licensees that the FCC never contemplated, never would endorse, and should not tolerate now

If this suggested pattern of abuses materializes, the FCC can and should consider several options to prevent such misuse of its rules. First, the Commission should consider whether the voluntary negotiation periods afforded under the rules should or, indeed, can be maintained in an environment where microwave licensee organizations are seeking to misuse them for purely private pecuniary gain. Elimination of such periods could go a long way toward diffusing the threat that microwave licensees could delay the introduction of PCS services as a means to extract unwarranted concessions.

Second, the FCC should consider whether or not to place a limit on the total cost compensation and value of comparable alternative facilities available to microwave licensees in order to eliminate any possibility that an unmerited premium could be sought or obtained during the mandatory negotiation period.

Finally, the Commission should consider whether the current 12 month testing period -- which permits a microwave licensee to be returned to its original facilities within a year after cutover to new facilities where the latter prove not to be comparable -- should be eliminated to prevent efforts by microwave licensees to extract premiums for early release from this obligation.

Honorable Reed Hundt April 28, 1995 Page 3

As stated above, PCIA is strongly committed to facilitating the achievement of the Commission's and the industry's goals for early deployment of PCS. PCIA therefore urges you to take whatever actions may be necessary to ensure that the economic interests of private parties are not permitted to interfere with the public interest in delivery of these important and valuable services.

Respectfully submitted,

Jay Kitchen
Jay Kitchen



Pleane (200) 331-9491 Per (202) 351-7689

November 21, 1994

IMPORTANT INFORMATION FOR ALL 2 GHz LICENSEES

Big Moncy and Your 2 GHz Microwave Band Relocation

Dear 2 GHz Licenson

The Pederal Communications Communication (PCC) has received 74 applications to participate in an auction, beginning December 5, 1994, of 99 Major Trading Area licenses to provide Personal Communications Services in the 2 GHz hand (broadband PCS) on frequency Blocks A and B.

As expected, the bidders for the MTA licenses include some of the largest relecontinunications companies in the United States. Among those submitting applications were:

- Associated Veneum (Associated Communications)
- ATAT Wirelaw PCS Inc.
- Continental Cablevision, Inc.
- Radiofone Nation-wide Paging Services, Inc.
- American Portulale Telecumentanications, Inc.
- WirelessCo, Limited Partnership (Consortium of Sprint, Comcast, Cox Communications and Telecommunications, Inc.)
- GTS Macro Communications Communication
- PCS Primero Limited Partnership (Consordum of Nynex, Reli Atlantic, US West and Air Touch)
- · BellSouth Personal Cummunications, Inc.
- · Comcast Telephony Services II. Inc.
- Con Cable Communications, Inc.
- Pacific Talweis Mobile Systems
- · Southwestern Hell Mobile Systems, Inc.

I also wanted you to malize that 74 PCS provident:

- Are investing "big" money.
- Went their investment to work.
- May be the provid numera of your 2 GHz microwave license in the very near future.
- D Are in a hurry to enter the market.

AND WHAT HAVE YOU DONES

Will you he ready for the transition?

IMPORTANT INFORMATION FOR ALL 2 GHz LECENSEES Page 2

These applicants were required to submit their unform payment for the December 5 auction by Friday, November 18, 1994.

For example, the upfront payment by a PCS provider for the following four Major Trading Areas, consisting of either one or two 30 MHz MTA Prequency blocks, amounted to:

| Marient No. | Make Tracing ARE | Population | Unisone Promone | Block(x) |
|-------------|---------------------|------------|-----------------|----------|
| M-1 | New York | 26,410,597 | 8 15,846,399 | 5 Only |
| M-3 | Chicago | 12,069,700 | \$ 7,241,820 | A&B |
| M-10 | Washington-Bukimuse | 7,777,875 | \$ 4,666,725 | B Only |
| M-34 | Kanes City | 2,915,304 | 5 1,747,983 | AMI |

^{*} Upfront Payment = Population × Block Size in MHz x \$.03

The upfront payment is small compared to the "big money" the successful bidder will have to pay for a PCS license in the December 5, 1994 suction.

Money insues are always interesting and intriguing. Fellowing is an example of the amount of investment which might be made by a PCS provider for the Major Trading Area No. 10, Washington-Beltimore:

Market No:

10

Major Trading Area:

Washington-Baltimore

Unfrom Promoti

\$ 4,565,725

Interest otherwise strang on uplicant gayment:

WA YEARLY INTEREST RATE CYTHERWISE EARNED: 9 575,300 894 MICHAELY INTEREST RATE CYTHERWISE FARNED: 9 575,300

Pomible Austion

\$752,000,000

Hidding Price for MTA No. 10

due and payable 5 days after the license has been

awunded.

interest otherwise easted on suction investment:

846 YEARLY INTEREST NATE OTHERWISE EARNED: \$ 60,160,000 846 MONTHLY INTEREST RATE OTHERWISE EARNED: \$ 5,000,000

IMPORTANT INFORMATION FOR ALL 2 GHZ LICENSEES Page 3

Marketing issues are also very interesting. Now that we have learned how the PCS provider who invested in the Wathington-Bakimore License Black B could receive, conservatively speaking, a monthly interest of — WOW! — \$5,000,000 on his auction investment, we can determine without a doubt that the PCS provider will be most auxidius to enter the PCS market in a hurry to recoup its investment. The PCS provider needs to enter the market the minute he has been launed the 2 GHz license. The PCS provider cannot afford to lose \$5,000,000 per month and mark expectably since be well have to spend sufficient or your believe to build but authorities.

NOW THE MOST IMPOSTANT QUESTION, YOU THIS 2 GRE LICENSEE SHOULD ANK

"What have I done to be ready for the transition!"

Over the past several months we have suggested that you plan carry. We asked you to address crucial decisions about your selection, such as:

- Where to set
- What should the cusmomention puckage include?
- What negotiation strategy should I employ?

Are you prepared to accomplish this major transition task alone? If not, UTC Service Corporation and its Transition Team can assist you.

Call us today toll-free at 1-800-900-4552 and find our how we can sanist you in relocating from the 2 GHz band.

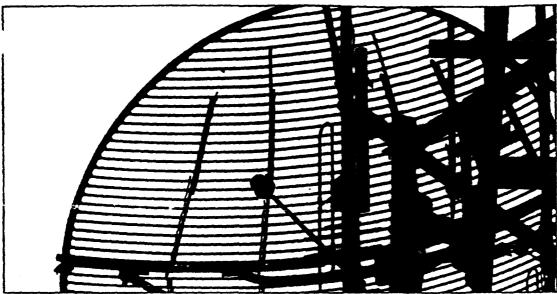
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CITYLIGHTS

CITY LIGHTS



Found Money on City's Info Highway

By Melinda Powelson

ohn Eger, San Diego's self-professed wizard of telecommunications, has an interesting history. A former CBS broad-

carting executive. Figer has advised the likes of past presi-dents Richard Minn and Gertions. And since moving to

San Diego six years ago, Eger has succeeded in making him-velf an indispensable advisor to Mayor Susan Golding.

professor at Sant Diego State, was appainted to the broard of the San Diego Data Processing Center, a city-owned agency that provides the city with iter services. He also as chairman of Goldes 24 ch ing's City of the Future Commgs City at the return con-mistee, a group intended to make San Diego the "hub of information technology." Now Eger is involved in an-

other city project — but this time, he's getting paid. Last month, City Manager Jack McGrory awarded a \$245,000 contract to a nine-member consulting team led by the Weshington, D.C. law firm. Keller and Heckman. Fger will serve as the group's "stratego: advesor" for a fee of \$270 an

The consultants' assign ment: to help negotiate a deal that may be worth millions of dollars to taxpevers. (It maybe

Next year, big cable and telephone companies want to begin offering a new kind of "personal communication sys-"personal communication sys-tem," sispposed to revolutiony America commu nicates. Tiny packet cellular phones will be able to take incoming calls and pages and nerve as an answering ma-— all for a nominal fee,

But before selectors cations companies can prowaves currently used by Incal government for police, fire. and ambulance transmissions Cities have been ordered to find another frequency on the spectrum for their networks. By law, the new necessaris of the frequencies must pay for the expensive equipment re-quired to build new systems for the cities.

Tension is mounting: the cities want to be compensated for moving, while communications companies, anxious to market their products as soon as possible, say they don't want

The Keller and Heckman team is being paid to deter-mine how much money the city should charge for the move. The law frem will also evaluate unspecified furate

gue partnershipe with tele-communications firms. That has both Fige's fin-gerprints all over it," save Michael Shames of tream

dag group, He points out that Eger has encouraged publicprivate partnerships in the

Other cities scross the country are grappling with the same problem. But instead "We wanted to move quickly on this and not hold up the new technology," says Richard Willen of the city's unications deven The inner that we are facing are highly technical. There are going to be very complex

regretations.
That's where Face and the
muching transcenture as, "Nedidn't have the expertence to sinus, Agges exhibitor, in the Lasticidate in their military ed a comm meed a commitment to some up-with a plant. The are new inseed three applicanes and ubinoactive choice Keller and Hes Eman. The terms is led by Richards, when specializes in telesconman spectures in treatment munications. Other partici-punts include Charles I, Lack-ann and letters. Robble, of the strategic Police Research Cen-ter in Marvhaud; Mark Cendu and Klann Render of the Industry Telepoon dustry Telegommunications Association; and Eger, who heads up "traceus planning." (Like Eger, Robbi and laston alos charge \$279 an insur." Wilken adonts that Eger's

participation pare the Keller and Heckman programs an advantage mer the rather consistants. "We likely the fact that they had someone who knew what the situation here ugs," Willen saw, adding, "I abso-lately don't think it's a

Shames disagrees, saying Eger's participation raises some important questions.



of hiring costly consultants. Los Angeles, San Francisco, Portland, and Seattle are all handling the negotiations on waste the lasparers' me says leef Harrington of Pers-land. This is an issue of securing emergency enroment Washington, D.C. lawyers

The debate began when the Federal Communications Commission (FCC) decided to recvaluate how it divided the radio spectrum. To accom middle the homine colular indusers, the 1s of indeped the

chica to more. venue paul 526 million no ceture increase in Nam Pages for the new wireless services. Both companies say they want to be on the air and start mar-keting their services, by 1996.

We really don't kn [Eger] viss on the City of the Future Committee," Shames says, "Did he do it because he is really increased in finding the best services for the cay? Or did he do it so that he could get lucrative city

Two weeks agn. Cindy Hicks, fige's secretary, and her boss was traveling abroad and that the would contact fige about questions regarding his role in the consulting project. Figer did not return calls. In respanse in subsequent requests. Hicks said First was will out of

the country.
"We descrimined that Mr.
Figer's role in the manne's City
of the Future Committee had nothing to do with the concrocs we are talking about." sars Assistant City Attendey. Cueto Fitzpotrick. "The Com-muttee is not going to vote on. [7] tract we are talking also



info highway

1

any of the enterowner reloca-tion issues. The city is test po-ing to take the position that everyone who has volunteered

regarmenters. We are then-Sing this in-house," may fen-Chan, of the City of Las An-geles, which is also negatist-ing with Pacific Televis and Can Cabberision. "We have alinnent to use our microwave bands, and we are beginning the negociation process." he says. Chan estimates that it

CITY LIGHTS

will cost the companies roughly \$1 million to move the city's system. Portland communication

director Harrington says his city has also decided to nego-tiate without consultants. "The only prosple who are go-ing to benefit from this are the high-priced consultants, who get poid ridiculous amounts of money. Most clairs should be able to do this on their own."

inestey, Most chies should be table to do this on their own."

San Diego's Wilhest disagrees. "This is a very complicated area of the law, and it's an important decision for San Diego. We wanted to make certain that we understood all of the options available to us in these negotiations." Forthermore, he adds, the consulting fees will ultimately be paid by Pacific Telesis and Cas — not the tattpapers.

Chan says that his department never even considered the possibility of public-private partocribips. "All we want and or in proceet the city's emergency communications network," he says, "This is an opportunity to unprade our system, at no expense to the tattpapers. I don't think it is appropriate to be speculating abust public-private ventures."

Portland's Harrington agrees, "This isn't about lank-interest to make

pretiand s Harrington agrees. This isn't about lank-ing for opportunities to make morey. This is about securing emergency communications systems for the metropolitan systems for the interroposition area. We've already moved our entire communications system. What I want to do is recomp some of the cost of the relocations."

But San Diego's Wilken sars that Portland and L.A. may be meaning ent on a once-ina-lifetime opportunity. "We have been getting calls from all over the U.S. asking us for ad-rice," he saws. "We want to nice. he saw. We want to make sure that we build a state-of-the-art communica-tions network. However, industry analysis warn that San Diego should-

n't be we caper.
"There are some height-

there are some neight-ened expectations out there that have to be dealt with. 'Bilking' would not be too strong of a word," says Mark Colden, of the Personal Com-

munications Industry Associ-ation.

"Everyone thinks that be-cause [Pacific Telesis and Can] have paid millions for the fi-censes, that they is we liamidean deep puckets," continues Colden. "City officials think that they may have discovered a way to help balance the bud-get. That is categorically un-truce — and unfair to the in-duster. This should be a win-win for everybody."

Wilken says San Diego has no intention of extorring

witten says San Diege ma no intention of exterring money from the providers. "We want to resolve this insue to the henefit of the tanpayers, but we don't intend to do it at the cost of the new sechnology"

MICROWAVE RELOCATION

B. Microwave relocation cost sharing

Completing the relocation process in a timely manner requires the establishment of strong incentives for microwave licensees to relocate and the removal of disincentives for relocation.

PCIA's Microwave Relocation Task Force, which has been aggressively addressing this critical concern since 1994, recognized that many links fall in more than one PCS licensee's geographic market and/or spectrum. Moreover, incumbents have expressed a strong preference to have entire systems, not individual links, replaced. A mechanism for allowing PCS licensees to share cost of microwave relocations in such cases was identified by the industry as a priority issue.

PCIA proposed such a cost sharing plan in Docket 90-314. While the Commission failed to act on PCIA's proposal at that time, the imminent deployment of PCS systems has raised the level of urgency in securing a resolution in this matter.

Pacific Bell (a PCIA Microwave Relocation Task Force participant) filed a *Petition for Rulemaking* in May 1995 which refined PCIA's original proposal and made the case for adoption of a cost sharing plan on an expedited basis. PCIA's task force made further refinements to the plan and secured a broad ranging consensus of PCS licensees in support of the PCIA proposal.¹

Expeditious implementation of cost sharing is a priority issue for the broadband PCS industry.

Ameritech, American Personal Communications, Bell South Wireless, Ominipoint Communications, Pacific Bell Mobile Services and Western PCS Corporation, companies with PCS A and B block authorizations covering approximately 100 million POPs, were signatories on PCIA's cost sharing plan; Comments filed demonstrated overwhelming support among both PCS licensees and the microwave industry.

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

| Petition for Rulemaking |) | |
|-----------------------------------|---|---------|
| of Pacific Bell Mobile Services |) | RM-8643 |
| Regarding a Plan for Sharing |) | |
| the Costs of Microwave Relocation |) | |

COMMENTS OF THE PERSONAL COMMUNICATIONS INDUSTRY ASSOCIATION

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